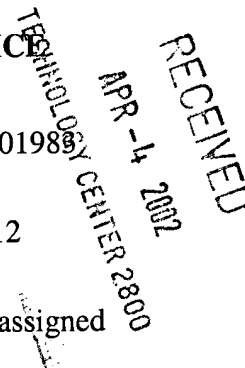


2812  
PATENT  
AP01983 8-7-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Chen, Shiuh -Hui et al. Attorney Docket No.: AP01983  
Serial No.: 10/058,557 Art Unit: 2812  
Filing Date: 01/28/02 Examiner: Unassigned  
Confirmation No.: 4319



For: SEMICONDUCTOR WAFER HAVING A THIN DIE AND TETHERS AND METHODS OF MAKING THE SAME

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO:

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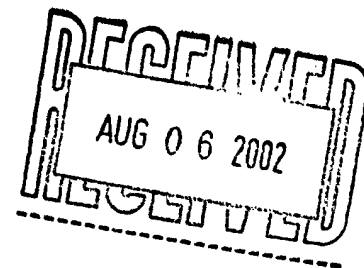
Name of Assignee

Jayna Sehen  
SIGNATURE

3/29/02  
DATE

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner For Patents  
Washington, D.C. 20231



SIR:

In accordance with 37 C.F.R. §1.56 and in compliance with 37 C.F.R. §§1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

I. COPIES

- a. ☒ A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.

- b. ☐ Any patents, publications or other information which are listed on PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. §120:

U.S. Serial Number

U.S. Filing Date

II. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- a. ☒ Except as may be indicated below in (b) of this section, all of the patents, publications or other information are in the English language (concise explanation not required).
- b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- c. ☐ The following additional information is provided for the Examiner's consideration:

III. ☐ CROSS REFERENCE TO RELATED APPLICATION(S)

The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this (these) applications to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. §122.

Serial No.

Filing Date

Art Unit

FEES

IV. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)

- a. ☒ within three months of the filing date of a national application (37 C.F.R. §1.97(b)(1)). No fee or statement is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. §1.97(b)(2)). No fee or statement is required.
- c. ☐ before the mailing date of a first Office Action on the merits (37 C.F.R. §1.97(b)(3)). No fee or statement is required.
- d. ☐ In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. §1.97(c) and see the statement under 37 C.F.R. §1.97(e) provided below, or if no statement has been made, charge deposit account 13-4771 the fee set forth in 37 C.F.R. §1.17(p).

- V. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)  
before the mailing date of either a Final Office Action under 37 C.F.R. §1.113 (See 37 C.F.R. §1.97(c)), or a Notice of Allowance under 37 C.F.R. §1.311 (See 37 C.F.R. §1.97(c)).
- a. ☐ No statement; therefore, charge deposit account 13-4771 the fee set forth in 37 C.F.R. §1.17(p).
- b. ☐ See the statement below. No fee is required.

VI. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):

on or before payment of the issue fee and is accompanied by the following:

- 1) a statement under 37 C.F.R. §1.97(e) as provided below;
- 2) Applicant(s) hereby a petition for consideration of this information disclosure statement;  
and
- 3) charge deposit account 13-4771 the petition fee set forth in §1.17(i).

VII. Statement under 37 C.F.R. §1.97(e) (check only one box, if applicable)

The undersigned hereby states that

- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office is a counterpart foreign application not more than three months prior to the filing of IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and to knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement, or
- c. ☐ some of the items of information contained in the IDS were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

VIII. PAYMENT OF FEES

- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the above-identified fee(s).
- ☐ Please charge Deposit Account No.13-4772 in the amount of \$180.00 for the above-indicated fee(s).
- ☒ If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account 13-4772
- ☒ Two Copies of this paper are attached for Deposit Account charges and debits.

It is Applicants' opinion that the claims presently on file patently distinguish the present invention from each of these references. The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 13-4772.

Respectfully submitted,  
Shiuh -Hui Chen et al.



\_\_\_\_\_  
Thomas V. Miller  
Attorney for Applicant(s)  
Reg. No. 42,002  
Tel. (847) 538-7103

MOTOROLA, INC.  
Customer Number 22917

Enclosures: ☒ PTO/SB/08  
☒ References  
☐ Foreign Search Report  
☐ Other:



Please type a plus sign (+) inside this box.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
		<b>Application Number</b>	10/058,557
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Filing Date</b>	01/28/02
		<b>First Named Inventor</b>	Chen et al.
		<b>Group Art Unit</b>	2812
		<b>Examiner Name</b>	Unknown
		<b>Attorney Docket Number</b>	AP01983
Sheet	1	of	2

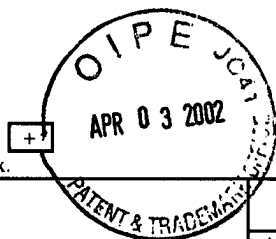
U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		3,761,784		Jund	07/04/1989	
		4,191,057		Busta	05/27/1997	
		4,275,406		Muller et al.	06/23/81	
		4,317,126		Gragg, Jr.	02/23/82	
		4,395,451		Althouse	07/26/83	
		4,444,054		Schaff, Jr	04/24/84	
		4,667,944		Althouse	05/26/87	
		4,683,755		Samek	08/04/87	
		4,711,014		Althouse	12/08/87	
		4,986,861		Nishida et al.	01/22/91	
		4,996,627		Zias et al.	02/26/91	
		5,356,176		Wells	10/18/94	
		5,629,486		Viduya et al.	05/13/97	
		5,644,102		Rostoker	07/01/97	
		5,917,264		Maruno et al.	06/29/99	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.



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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/058,557		
		Filing Date	01/28/02		
		First Named Inventor	Chen et al.		
		Group Art Unit	2812		
		Examiner Name	Unknown		
Sheet	2	of	2	Attorney Docket Number	AP01983

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		"Micromachines on the March" Janusz Bryzek, Kurt Petersen, and Wendell McCulley. IEEE Spectur, May 1994, pp 20-31.	
		"Ultra Thin ICs Open New Dimensions for Microelectric Systems" G. Klink, C. Landesberger, M. Feil, F. Ansorge, R. Aschenbrenner. Advancing Microelectronics, July/August 2000; pp.23-25.	
		"New Process Scheme for Wafer Thinning and Stress-free Separation of Ultra Thin ICs" C. Landesberger, S. Scherbaum, G. Schwinn, H. Spohrle. Proceedings of Microsystems Technologies 2001; pp. 1-7.	
		"Innovative Packaging Concepts for Ultra Thin Integrated Circuits" G. Klink, M. Feil, F. Ansorge, R. Aschenbrenner, H. Reichl. Electronic Components and Technology Conference, 2001; pp. 1034-1039.	
		"Thin Silicon Chips and ACF Connection Technology for Contactless IC Cards" Mitsuo Usami. 1999 International Symposium on Microelectronics; pp. 309-312.	
		"Mechanical Lapping, Handling and Transfer of Ultra-Thin Wafers" S. Pinel, J. Tasselli, J.P. Bailbe, A. Marty, P. Puech and D. Esteve. Microengineering Vol. 8, 1998; pp 338-342.	
		"SmartCard Assembly Requires Advanced pre-Assembly Methods" Dr. J. Muller, P. Stampka, W. Kruninger, E. Gaulhofer, H. Oyrer. Semiconductor International, July 2000; pp. 191-200.	
		"Thin Monocrystalline Silicon Films on Flexible Substrates Enable Multiple Transfer Processes" C. berge, Dr. R. Bergmann, D. J. Werner. MRS Bulletin, August 2001; pp. 603.	
		Khazan, A.D., "Transducers and Their Elements: Design and Application." Prentice-Hall, Inc. 1994, ISBN 03-13-929480-5. pp 393-395.	
		"Packaging Very High Pressure Transducers for Common Rail Diesel Injection Systems" K. Sidhu, Measurement Specialties, Inc. October 1987, pp. 1-4	

Examiner Signature	Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached.